

**WHAT IS CLAIMED IS:**

- 1           1.     A prepreg for fiber reinforced plastic, which comprises a matrix resin  
2                     composition containing a bifunctional isocyanate and/or a trifunctional  
3                     isocyanate, a polyol and a bifunctional chain extender having two  
4                     active hydrogen groups at a molar ratio, as a functional group, of  
5                     isocyanate : polyol : chain extender = 5.0 to 1.0 : 1.0 : 4.0 to 0; and a  
6                     fibrous material.
- 1           2.     A prepreg for fiber reinforced plastic, which comprises a matrix resin  
2                     composition containing a bifunctional isocyanate and/or a trifunctional  
3                     isocyanate and a polyol at a molar ratio, as a functional group, of liquid  
4                     isocyanate : polyol = 0.9 to 1.1:1.0; and a fibrous material.
- 1           3.     A prepreg for fiber reinforced plastic according to claim 2, wherein the  
2                     polyol has an average molecular weight of from 100 to 550.
- 1           4.     A prepreg for fiber reinforced plastic according to claim 1, wherein the  
2                     polyol contains at least 50 wt.% of polypropylene glycol.
- 1           5.     A prepreg for fiber reinforced plastic according to claim 2, wherein  
2                     the polyol contains at least 50 wt.% of polypropylene glycol.
- 1           6.     A prepreg for fiber reinforced plastic according to claim 3, wherein the  
2                     polyol contains at least 50 wt.% of polypropylene glycol.
- 1           7.     A production process of a prepreg for fiber reinforced plastic, which  
2                     comprises impregnating a fibrous material with a matrix resin  
3                     composition containing a bifunctional isocyanate and/or a trifunctional  
4                     isocyanate, a polyol and a bifunctional chain extender having two  
5                     active hydrogen groups at a molar ratio, as a functional group, of  
6                     isocyanate : polyol : chain extender = 5.0 to 1.0 : 1.0 : 4.0 to 0.

- 1        8.     A production process of a prepreg for fiber reinforced plastic, which  
2               comprises impregnating a fibrous material with a matrix resin  
3               composition containing a bifunctional isocyanate and/or a trifunctional  
4               isocyanate and a polyol at a molar ratio, as a functional group, of liquid  
5               isocyanate : polyol = 0.9 to 1.1 :1.0; and a fibrous material.
- 1        9.     A production process according to claim 8, wherein the polyol has an  
2               average molecular weight of from 100 to 550.
- 1        10.    A production process according to claim 7, wherein the polyol contains  
2               at least 50 wt.% of polypropylene glycol.
- 1        11.    A production process according to claim 8, wherein the polyol contains  
2               at least 50 wt.% of polypropylene glycol.
- 1        12.    A production process according to claim 9, wherein the polyol contains  
2               at least 50 wt.% of polypropylene glycol.
- 1        13.    A production process according to claim 7, further comprising, after  
2               the impregnation with the matrix resin, semi-curing the thus  
3               impregnated resin.
- 1        14.    A production process according to claim 8, further comprising, after  
2               the impregnation with the matrix resin, semi-curing the thus  
3               impregnated resin
- 1        15.    A production process according to claim 9, further comprising, after  
2               the impregnation with the matrix resin, semi-curing the thus  
3               impregnated resin.
- 1        16.    A production process according to claim 10, further comprising, after  
2               the impregnation with the matrix resin, semi-curing the thus  
3               impregnated resin.

- 1           17.    A production process according to claim 11, further comprising, after  
2                   the impregnation with the matrix resin, semi-curing the thus  
3                   impregnated resin.
- 1           18.    A production process according to claim 12, further comprising, after  
2                   the impregnation with the matrix resin, semi-curing the thus  
3                   impregnated resin.
- 1           19.    A production process according to claim 13, wherein the semi-curing  
2                   is performed by keeping the temperature of the matrix resin during  
3                   curing at a temperature lower by at least 10°C than the curing  
4                   temperature thereof.
- 1           20.    A production process according to claim 14, wherein the semi-curing  
2                   is performed by keeping the temperature of the matrix resin during  
3                   curing at a temperature lower by at least 10°C than the curing  
4                   temperature thereof.
- 1           21.    A production process according to claim 15, wherein the semi-curing  
2                   is performed by keeping the temperature of the matrix resin during  
3                   curing at a temperature lower by at least 10°C than the curing  
4                   temperature thereof.
- 1           22.    A production process according to claim 16, wherein the semi-curing  
2                   is performed by keeping the temperature of the matrix resin during  
3                   curing at a temperature lower by at least 10°C than the curing  
4                   temperature thereof.
- 1           23.    A production process according to claim 17, wherein the semi-curing  
2                   is performed by keeping the temperature of the matrix resin during  
3                   curing at a temperature lower by at least 10°C than the curing  
4                   temperature thereof.

- 1           24.    A production process according to claim 18, wherein the semi-curing  
2                   is performed by keeping the temperature of the matrix resin during  
3                   curing at a temperature lower by at least 10°C than the curing  
4                   temperature thereof.
- 1           25.    A production process according to claim 7, which is performed under  
2                   vacuum or reduced pressure.
- 1           26.    A production process according to claim 8, which is performed under  
2                   vacuum or reduced pressure.
- 1           27.    A production process according to claim 9, which is performed under  
2                   vacuum or reduced pressure.
- 1           28.    A production process according to claim 10, which is performed under  
2                   vacuum or reduced pressure.
- 1           29.    A production process according to claim 11, which is performed under  
2                   vacuum or reduced pressure.
- 1           30.    A production process according to claim 12, which is performed under  
2                   vacuum or reduced pressure.
- 1           31.    A production process according to claim 13, which is performed under  
2                   vacuum or reduced pressure.
- 1           32.    A production process according to claim 14, which is performed under  
2                   vacuum or reduced pressure.
- 1           33.    A production process according to claim 15, which is performed under  
2                   vacuum or reduced pressure.
- 1           34.    A production process according to claim 16, which is performed under  
2                   vacuum or reduced pressure.

- 1 35. A production process according to claim 17, which is performed under  
2 vacuum or reduced pressure.
- 1 36. A production process according to claim 18, which is performed under  
2 vacuum or reduced pressure.
- 1 37. A production process according to claim 19, which is performed under  
2 vacuum or reduced pressure.
- 1 38. A production process according to claim 20, which is performed under  
2 vacuum or reduced pressure.
- 1 39. A production process according to claim 21, which is performed under  
2 vacuum or reduced pressure.
- 1 40. A production process according to claim 22, which is performed under  
2 vacuum or reduced pressure.
- 1 41. A production process according to claim 23, which is performed under  
2 vacuum or reduced pressure.
- 1 42. A production process according to claim 24, which is performed under  
2 vacuum or reduced pressure.
- 1 43. Fiber reinforced plastic obtained by curing a prepreg for fiber  
2 reinforced plastic as claimed in claim 1.
- 1 44. Fiber reinforced plastic obtained by curing a prepreg for fiber  
2 reinforced plastic as claimed in claim 2.
- 1 45. Fiber reinforced plastic obtained by curing a prepreg for fiber  
2 reinforced plastic as claimed in claim 3.
- 1 46. Fiber reinforced plastic obtained by curing a prepreg for fiber  
2 reinforced plastic as claimed in claim 4.

- 1        47.    Fiber reinforced plastic obtained by curing a prepreg for fiber  
2                reinforced plastic as claimed in claim 5.
- 1        48.    Fiber reinforced plastic obtained by curing a prepreg for fiber  
2                reinforced plastic as claimed in claim 6.